

Product datasheet for MR203817

Kdelc1 (BC023141) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdelc1 (BC023141) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kdelc1
Synonyms:	1810049A15Rik; 5730416C13Rik; EP58; Kdel1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203817 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCAGCATTTGCTGCTTTCTGCCTTTTTCTGGGACTGTGCCAGCACTTGCCAGACCGGGGAG
AGAGGAGGCTGAGCCAGAGAAGAGCGAAATATGGGGACCGGGCTAAAAGCACACGTGGTCCTCTGC
CCGCTATTTCTACATTCGGGCGGTGGATACCTCAGGGGAACAGTTTACATCTTCTCCAGGTGAAAAGGTG
TTCCAGGTTAAAATCTCAGCACCGGATGAGCAGTTCACGAGAGTTGGTGTCCAGGTTTTAGATCGAAAGG
ACGGTTTCCTTATAGTAAGATACAGAATGTATGCCAGCTACAGAAATCTGAAGATAGAGGTTAAACACCA
TGGGCAACATGTTGCCGAGTCTCCTTATGTTTTAAGAGGACCAGTTTACCATGAGAACTGTGACTGTCTT
TTGGAAGACAGTGCAGCCTGGCTACGGGAGATGAACTGTTTCGGAACAATCTCTCAGATTCAGAAAGATC
TGGCACATTTCCCTACTGTTGATCCTGAAAAGATTGCAGCAGAAATCCCAAAGCGATTTGGTCAGAGGCA
AAGCCTGTGCTACTATACCTTAAAGGACAATAAGGTTTATATCAAGACTCATGGTGAACGTTGGCTTT
AGGATTTTCATGGATGCAATACTACTTTTATTGACTAGAAAGGTGAGGATGCCAGATGTGGAATTTTTTG
TTAATTTGGGAGACTGGCCTTTGGAAAAAAGAAATCCAACCTCCAACATTCAGCCGATCTTTCTGGTG
TGGCTCCACAGAGTCCAGGGATATTGTGATGCCTACCTACGACCTGACTGACTCTGTTCTAGAAACCATG
GGCCGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203817 protein sequence
Red=Cloning site Green=Tags(s)

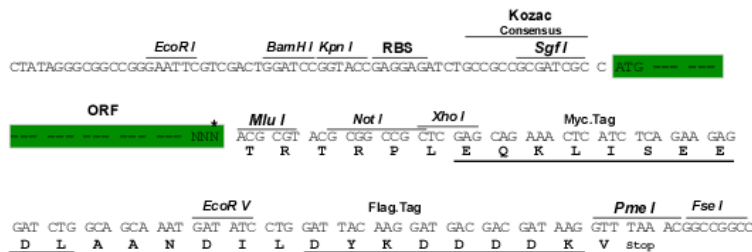
MFSISLLSCLFLGTVPALAQTGGERRLSPEKSEIWGPGLKAHVVLARYFYIRAVDTSGEQFTSSPGEKV
 FQVKISAPDEQFTRVGVQLDRKDGSIIVRYRMYASYRNLIKIEVKHHGQHVAVSPYVLRGPVYHENCDCP
 LEDSAAWLREMNCSETISQIQKDLAHFPTVDPEKIAAEIPKRFGQRQSLCHYTLKDNKVYIKTHGEHVGF
 RIFMDAILLSLTRKVRMPDVEFFVNLGDWPLEKKKSNSNIQPIFSWCGSTESRDIVMPTYDLTDSVLETM
 GR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC023141

ORF Size: 846 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [BC023141](#), [AAH23141](#)

RefSeq Size: 2156 bp

RefSeq ORF: 848 bp

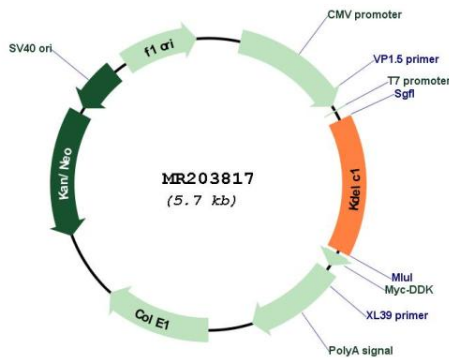
Locus ID: 72050

Cytogenetics: 1 C1.1

MW: 32.1 kDa

Gene Summary: Protein glucosyltransferase that catalyzes the transfer of glucose from UDP-glucose to a serine residue within the consensus sequence peptide C-X-N-T-X-G-S-F-X-C. Can also catalyze the transfer of xylose from UDP-xylose but less efficiently. Specifically targets extracellular EGF repeats of proteins such as NOTCH1 and NOTCH3. May regulate the transport of NOTCH1 and NOTCH3 to the plasma membrane and thereby the Notch signaling pathway. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203817